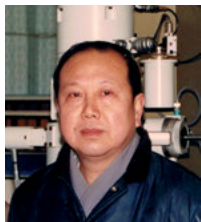


## About the authors



Professor Gengxiang Hu graduated from the Mechanical Engineering Department of Shanghai Jiao Tong University (SJTU) in 1952 and worked as assistant professor at the Mechanical Engineering Department. From 1956 to 1979, he was a lecturer at the Department of Metallurgy at SJTU, and from 1979 to 1980, he was an associate professor in Materials Science Department at SJTU, and deputy director of the Institute of Superalloy. From 1980 to 1982, he was a visiting scholar at the University of California, Berkeley, and Lawrence National Laboratory for further study on “embrittlement of iron-based superalloys.” In 1985, he was promoted to professor at the Department of Materials Science.

Professor Hu coauthored the textbook *Metal Science*, which has been widely praised by teachers and students since it was published in 1980. It is used as the undergraduate textbook in more than 50 universities in China. In 1987, it won the first prize as an excellent textbook of China National Machinery Commission, and in 1988, it won the National Excellent Textbook award of China National Higher Education Commission. He also received a number of awards for excellence in teaching at SJTU.

In terms of scientific research, Professor Hu is mainly engaged in the research of “superalloys” and “superplasticity” of metal materials. He has published more than 100 scientific research papers in domestic and foreign journals. In order to commend Professor Hu for his outstanding contribution to the development of higher education in China, he is entitled to a special allowance from the State Council.



Professor Xun Cai Born on 29 November 1943 in Zhejiang, China, he graduated from the Department of Materials Science and Engineering at the Harbin Institute of Technology in 1965 and received PhD in physics at the Technical University of Vienna in 1988. After college, he was employed at first as an engineer and then as a senior engineer at Shanghai Electric Micromotors Research Institute. In 1988, he was appointed as an associate professor and then promoted to university professor at the Department of Materials Science and Engineering of Shanghai Jiao Tong University. In 1992, he received the title of “Outstanding Scientist Who Made Notable Contributions to China” from the Chinese government.

Professor Cai’s research concentrated on the areas of electric contact alloys, thin-film materials, and surface modification technologies. He has published 10 books and more than 300 research papers on materials science.



Professor Yonghua Rong graduated from the University of Science and Technology, Beijing, in 1976, majoring in metal physics, then become an assistant professor at Shanghai Jiao Tong University (SJTU). From 1994 to 1995, he, as a senior visiting scholar, studied 718 superalloys using transmission electron microscope at Lehigh University, USA. In 1999, he was promoted to professor in the School of Materials Science and Engineering at SJTU.

He wrote the textbook *Introduction to Analytical Electron Microscopy* (Chinese version) for postgraduates and the monograph

*Characterization of Microstructures by Analytical Electron Microscopy (AEM)* (English version). He also presided and wrote *Microstructural Characterization of Materials* for undergraduates.

Professor Rong was a director of “Phase Transformation Theories and Their Applications” group from 1998 to 2010. He is interested in phase transformation in nanomaterials and shape-memory alloys, especially advanced high strength steels, which reflect in his National Natural Science Foundation projects and one key project as well as in his monograph *Advanced High Strength Steels and Their Process Development*. He published more than 200 scientific research papers in domestic and foreign journals. He won the second prize of Natural Science Award of Chinese Universities in 2000, the second prize of National Teaching Achievement Award in 2001, the first prize of Shanghai Teaching Achievement Award in 2000, and the second prize of Shanghai Science and Technology Progress Award in 2004. He also received six awards for excellence in teaching at SJTU.